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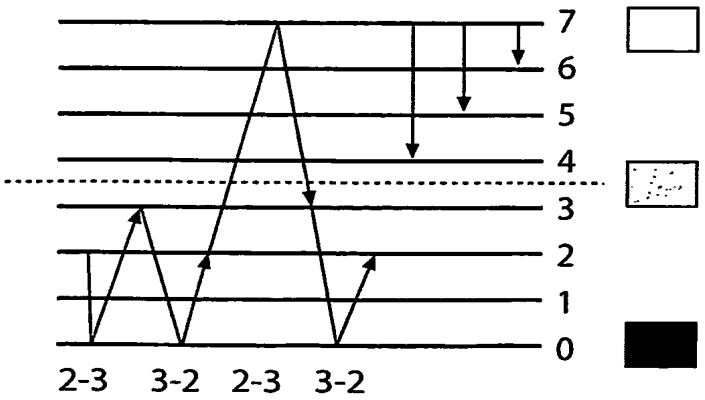
(54) Title: RESET PULSE DRIVING FOR REDUCING FLICKER IN AN ELECTROPHORETIC DISPLAY HAVING INTERMEDIATE OPTICAL STATES



(57) Abstract: The present invention relates to a novel driving scheme for an electrophoretic display providing accurate intermediate optical states. According to the invention, the level of remnant voltage across pixels are taken into account when driving the display. Remnant voltage is built up when resetting the pixel between consecutive image states, and the reset states are therefore chosen so as to avoid the generation of excessive remnant voltage levels. The invention can for example be implemented using a counter, counting the number of consecutive uses of the same state as extreme state, or using a look-up-table in which driving history of the display is mapped and which determines the reset state to be used for the next reset based on the driving history. In effect, the threshold number of consecutive uses of the same state as a reset state is avoided.

WO 2005/031688 A1

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